Application Serial No. 10/529,455   PATENT
Reply to office action of May 23, 2007   Docket: CU-4125

<u>Amendments To The Claims</u>

The listing of claims presented below will replace all prior versions, and listings,

of claims in the application.

<u>Listing of claims:</u>

1.   (currently amended) A data exchange and storage device, comprising:

a controller module including a firmware used for controlling the operation of

each of modules in the data exchange and storage device and performing data

processing and information exchange;

an internal memory module for storing data under the control of the controller

module;

a system interface module **capable of** being connected with a data processing

system and performing data exchange with the data processing system under the

control of the controller module; and

an external storage equipment interface module being connected with an

external storage equipment and performing data exchange with the external storage

equipment under the control of the controller module**;**

wherein the controller module permits data exchange and data access from

the internal memory module to the external storage equipment and from the

external storage equipment to the internal memory module when the data

processing system is not connected.

2.   (currently amended) The data exchange and storage device of claim 1, wherein

the internal memory module includes, a hard disk, a removable hard disk, a

semiconductor storage, and an optical medium storage ~~driving device~~.

3.   (original) The data exchange and storage device of claim 2, wherein the storage

medium of the semiconductor storage is selected from one of Flash Memory, DRAM,

EEPROM, SRAM, FRAM, MRAM and Millipede, and adopts one or more semiconductor

chips.

4.   (previously presented) The data exchange and storage device of claim 1,

wherein the system interface module includes USB interface, IEEE1394 interface,

Bluetooth interface, IrDA infrared interface, HomeRF interface, IEEE802.11a interface,

IEEE802.11b, IEEE802.11g, SCSI, RS232 and printer parallel port, wired wide

'area/local area interface and/or wireless wide area/local area interface.

5.   (previously presented) The data exchange and storage device of claim 1,

wherein the external storage equipment interface module includes SM, CF, MMC, SD,

MS, MD or x-D interface.

6.   (previously presented) The data exchange and storage device of claim 1,

wherein the system interface module and the external storage equipment interface

module either include single interface or a group of interfaces of the same type or

different types of interfaces.

7.   (previously presented) The data exchange and storage device of claim 1, further

comprising a power source module for supplying power to the data exchange and

storage device from the data processing system through an external power source or a

self-supplied battery or the system interface module.

8.   (previously presented) The data exchange and storage device of claim 1, further

comprising a manual control module for performing the manual control of data capture

and transmission, information prompt, and operational mode switching.

9.   (previously presented)The data exchange and storage device of claim 8, wherein

the manual control module includes a dial switch and keys.

10.   (previously presented) The data exchange and storage device of claim 1, further

comprising an information prompt module for displaying static information and dynamic

information.

11.   (original) The data exchange and storage device of claim 10, wherein the

information includes user information, product information, device information,

transmission file information, operational state information and the information of

external storage equipments which are connected therewith.

12.   (currently amended) The data exchange and storage device of claim 10,

wherein the information prompt module includes at least one of a liquid crystal display, a

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light emitting diode, a LED, a sound device and a vibrator.

13.   **(currently amended)** The data exchange and storage device of claim 1, further

comprising an audio module and/or a video module for ~~combing~~ **combining** with the

internal memory module or external storage equipments to implement a function of

playing multi-media.

14.   (previously presented) The data exchange and storage device of claim 1, further

comprising an eject device arranged at the interface of the external storage equipment

interface module, the eject device may eject the external storage equipment after being

pressed.

15.   **(currently amended)** The data exchange and storage device of claim 1, wherein

the external storage equipment **interface module** is **capable of receiving** a removable

disk or a storage card.

16.   (previously presented) A method of data exchange and storage for realizing data

exchange and data storage between the data exchange and storage device, the

external storage equipment and the data processing system host through the data

exchange and storage device of claim 1, comprising the steps of:

1) the controller module of the data exchange and storage device detecting the

characteristic information of the external storage equipments connected with the

relevant interfaces of the external storage equipment interface module, selecting the

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relevant interface protocols according to the characteristic information of the external

storage equipments, and establishing connections with the external storage

equipments;

     2) the controller module controlling the data exchange between the data

exchange and storage device and the external storage equipment or the data

processing system, and controlling the access to the internal memory module and the

external storage equipment according to the requests from the data processing system

or users.

17.   (currently amended) The method of data exchange and storage of claim 16,

further comprising: the controller module displaying the data read from the external

storage equipment or the internal memory module on ~~the~~ a display part of ~~the~~ an

information prompt module according to the operational instructions of the data

processing system and the users; and/or

     outputting the user information, the operational state information of the data

exchange and storage device, the relevant information of the external storage

equipment through the information prompt module.

18.   (currently amended) The method of data exchange and storage of claim 16,

further comprising: playing ~~the~~ a multi-media data read from the external storage

equipment or the internal memory module through ~~the~~ an audio module and/or ~~the~~ a

video module according to the operational instructions of the data processing system

and the users.

19.   **(currently amended)** The method of data exchange and storage of claim 16,

further comprising:

~~the~~ a̲ manual control module transmitting the operational instructions, such as,

storing user data, prompting information, switching operational modes, etc., to the

controller module.